

# QUALITY EVALUATION FOR WIRELESS COMMUNICATION NETWORKS

## **Abstract of the Disclosure**

5            Systems and methods for evaluating wireless network quality. A metric provided  
by embodiments of the present invention relies on information that is relatively easy to  
collect, can be very efficiently computed, and yet provides a realistic estimate of likely  
wireless network performance. In one implementation, the input includes path loss data  
and access point transmitter power level and frequency settings. A capacity indicator is  
10    computed for each client and each access point. A data rate indicator is computed for  
each client location. The traffic load is computed for each access point. Based on these  
computed indicators, a bidirectional client throughput can be computed for each client  
and a combined metric can be determined for the network as a whole.